Technology Solutions for Retail

R3
Desktop UHF Reader



R3 is a newly developed desktop UHF reader. Compatible with Windows, Android and iOS applications, it offers a short read distance of up to 45 cm. Thanks to its high-efficiency anti-collision algorithm, it delivers fast tag reading and writing while maintaining a high identification rate. It also supports data transmission via Bluetooth and USB Type-C. The R3 can be used for in-store pickup, logistics, identity verification, smart parking, access control, anti-counterfeiting systems, production process control and more.

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Specifications

Physical Characteristics

Dimensions	318 mm × 318 mm × 20 mm
Weight	1133 grams / 39.96 oz
Port	USB Type-C
Power source	USB, Type-C
LED Indicator	Power
	BT connection status
	Working (flashes when scanning tags)

Development Environment

Software development kit (SDK)	USB, Android/Windows
	Bluetooth, Android/IOS

Communication

USB Type-C	USB, Android/Windows
BT	Bluetooth, Android/IOS

User Environment

Operating Temp.	-4 °F to 122 °F / -20 °C to 50 °C
Storage Temp.	-40 °F to 158 °F / -40 °C to 70 °C
Humidity	5% RH - 95% RH non-condensing
Sealing	IP65

UHF

Frequency	860-960 MHz (custom design per frequency band)
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Circular polarization (4 dBi)
Output power	2 W Optional (33 dBm, for Latin America, etc.)
Read range	Up to 45cm







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